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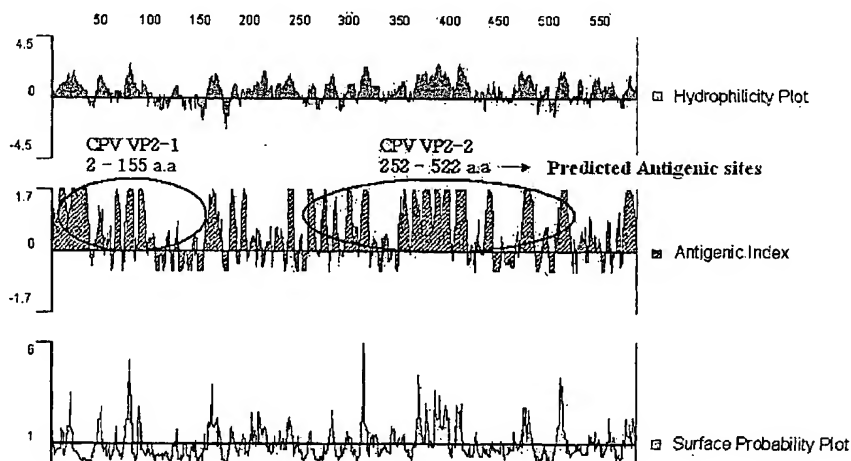
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(54) Title: CELL SURFACE EXPRESSION VECTOR OF PARVOVIRUS ANTIGEN AND MICROORGANISMS TRANS-
FORMED THEREOF



(57) Abstract: The present invention relates to a surface expression vector expressing a parvovirus antigen on the surface of mi-
croorganisms, the vector containing not only a gene encoding the capsid antigen protein of parvovirus causing canine parvovirus
(CPV) infection and feline panleukopenia (FLP) but also at least one of pgsB, pgsC and pgsA genes encoding a poly-gamma-glu-
tamate synthetase complex. Also, the present invention relates to microorganisms transformed with the surface expression vector,
and parvovirus vaccines containing the transformed microorganisms. According to the present invention, the use of the recombinant
bacterial strains expressing the parvovirus antigen on their surface allows the economical production of vaccines for the treatment
and prevention of canine parvovirus infection and feline panleukopenia.



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